

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1-112 (Cancelled).

Claim 113 (Currently Amended): A method for treating a subterranean formation producing well, comprising:

providing a mixture of an aqueous fluid, a surfactant, and a gas generating chemical, the gas generating chemical being present in an amount of from about 0.1% to about 10% by weight of a water component in the aqueous fluid, to form a well treatment fluid; allowing the gas generating chemical to react so as to generate a gas in the well treatment fluid to form a lightweight well treatment fluid; and combining using the lightweight well treatment fluid with fluids and/or solids in the to treat a subterranean formation producing well to enhance the removal of the fluids and/or solids therefrom.

Claims 114-115 (Cancelled).

Claim 116 (Previously Presented): The method of claim 115, wherein the acid component is present in the lightweight well treatment fluid in an amount up to about 30% by weight of the lightweight well treatment fluid.

Claim 117-120 (Cancelled).

Claim 121 (Currently Amended): The method of claim 113, wherein the aqueous fluid comprises an activator that comprises at least one of the following component selected from the group consisting of: a base, a buffer, or and an oxidizer.

Claim 122 (Currently Amended): The method of claim 113, wherein the generated gas is generated in the lightweight well treatment fluid while the lightweight well treatment fluid is being used to treat the subterranean formation combined with fluids and/or solids in the producing well.

Claim 123 (Currently Amended): The method of claim 113, wherein the generated gas comprises at least one of the following component selected from the group consisting of: nitrogen, ammonia, carbon dioxide, or and carbon monoxide.

Claim 124 (Previously Presented): The method of claim 113, wherein the lightweight well treatment fluid or the aqueous fluid comprises a gas production rate enhancing agent.

Claim 125 (Currently Amended): The method of claim 124, wherein the gas production rate enhancing agent comprises a salt selected from the group consisting of: a copper salt or and an iron salt.

Claim 126 (Currently Amended): The method of claim 113, wherein the gas generating chemical comprises a component selected from the group consisting of: a hydrazine group, an azo group, hydrazine, azodicarbonamide, azobis(isobutyronitrile), p-toluene sulfonyl hydrazide, p-toluene sulfonyl(semicarbazide), carbohydrazide, p-p'-p-oxybis(benzenesulfonyl benzenesulfonyl hydrazide), an ammonium salt of an organic acid, an ammonium salt of an inorganic acid, hydroxyl amide amine sulfate, carbamide, or and a mixture thereof.

Claim 127 (Previously Presented): The method of claim 113, wherein the gas generating chemical is present in an amount of from about 0.3% to about 8% by weight of the aqueous fluid.

Claim 128 (Previously Presented): The method of claim 113, wherein the surfactant comprises a mixture of a foaming and a foam stabilizing surfactant.

Claim 129 (Currently Amended): The method of claim 113, wherein the surfactant comprises a surfactant selected from the group consisting of: an ethoxylated alcohol ether sulfate surfactant, an alkyl amidopropylbetaine surfactant, an alkene amidopropylbetaine surfactant, an alkyl amidopropyldimethylamine oxide surfactant, and or an alkene amidopropyldimethylamine oxide surfactant.

Claim 130 (Currently Amended): The method of claim 113, wherein allowing the gas generating chemical to react so as to generate a gas in the well treatment fluid to form a lightweight well treatment fluid comprises allowing the gas generating chemical to react with an activator in the aqueous fluid, the activator comprising at least one component selected from the group consisting of the following group: a base, a buffer, or and an oxidizer.